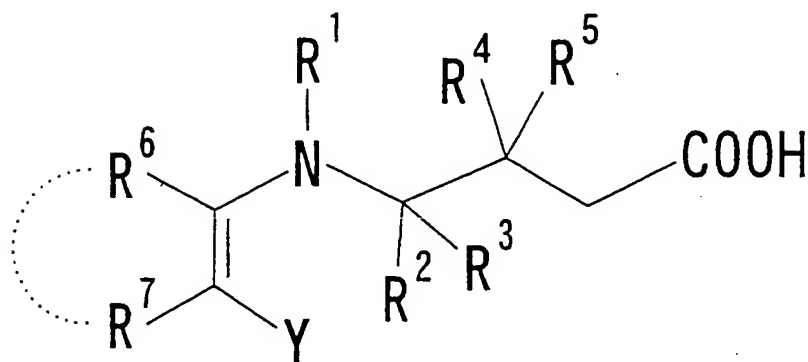


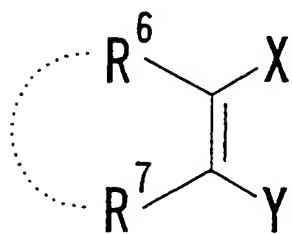
**In the Claims**

**Please substitute the following claims 8 and 12 for the claims 8 and 12 now pending in the above-identified application.**

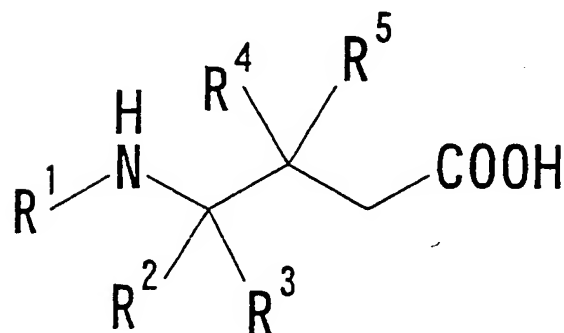
1. (Withdrawn) A process for the preparation of a compound of the formula:



wherein each variable is as defined below, or a salt thereof, characterized in that a compound of the formula:



wherein X is a halogen atom; Y is an electron-withdrawing group; R<sup>6</sup> and R<sup>7</sup> are independently a hydrogen atom, a halogen atom, an optionally substituted amino group, an optionally substituted hydroxyl group, an optionally substituted thiol group, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group; or R<sup>6</sup> and R<sup>7</sup> may form a ring, or a salt thereof, is allowed to react with a compound of the formula:



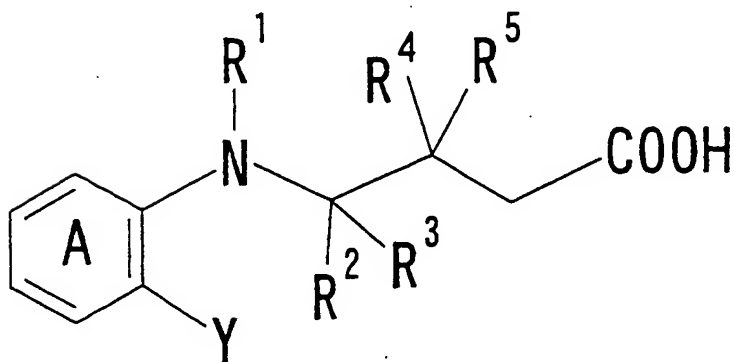
wherein  $R^1$  is an optionally substituted hydrocarbon group, an optionally substituted acyl group, or an optionally substituted sulfonyl group;  $R^2$ ,  $R^3$ ,  $R^4$ , and  $R^5$  are independently a hydrogen atom, a halogen atom, an optionally substituted amino group, an optionally substituted hydroxyl group, an optionally substituted thiol group, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group; or  $R^1$  and  $R^2$ ,  $R^1$  and  $R^4$ ,  $R^2$  and  $R^3$ ,  $R^4$  and  $R^5$ , or  $R^2$  and  $R^4$  may form a ring, or a salt thereof.

2. (Withdrawn) The preparation process according to claim 1, wherein Y is an optionally substituted acyl group.

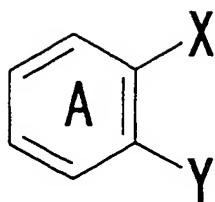
3. (Withdrawn) The preparation process according to claim 1, wherein  $R^2$ ,  $R^3$ ,  $R^4$ , and  $R^5$  are hydrogen atoms.

4. (Withdrawn) The preparation process according to claim 1, wherein  $R^1$  is an optionally substituted hydrocarbon group.

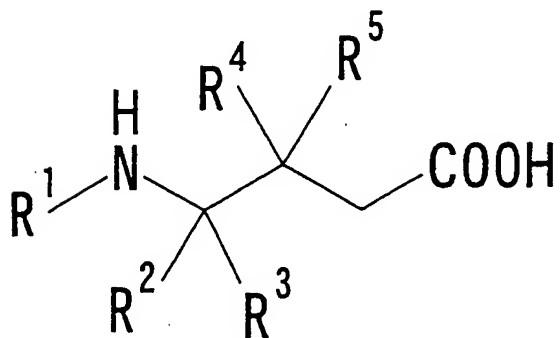
5. (Withdrawn) A process for the preparation of a compound of the formula:



wherein each variable is as defined below, or a salt thereof, characterized in that a compound of the formula:

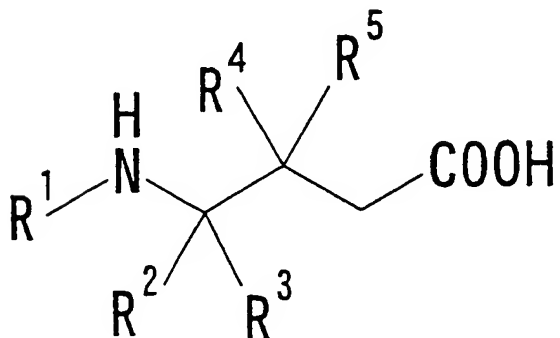


wherein X is a halogen atom; Y is an electron-withdrawing group; and ring A is an optionally substituted benzene ring, or a salt thereof, is allowed to react with a compound of the formula:

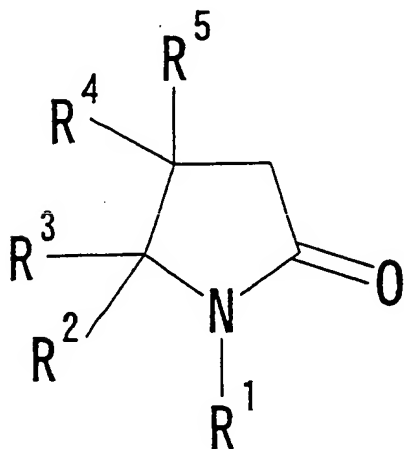


wherein R<sup>1</sup> is an optionally substituted hydrocarbon group, an optionally substituted acyl group, or an optionally substituted sulfonyl group; R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup> are independently a hydrogen atom, a halogen atom, an optionally substituted amino group, an optionally substituted hydroxyl group, an optionally substituted thiol group, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group; or R<sup>1</sup> and R<sup>2</sup>, R<sup>1</sup> and R<sup>4</sup>, R<sup>2</sup> and R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>, or R<sup>2</sup> and R<sup>4</sup> may form a ring, or a salt thereof.

6. (Withdrawn) The preparation process according to claim 1, characterized in that a compound of the formula:

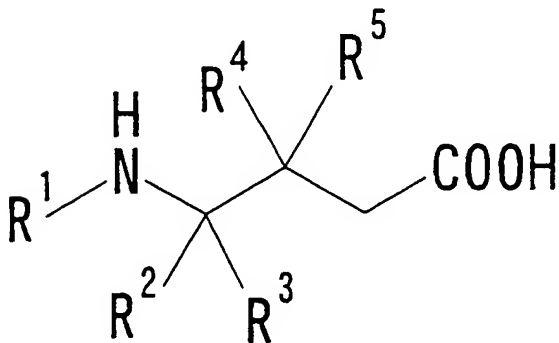


wherein each variable is as defined in claim 1, or a salt thereof, is used, which is obtained by hydrolyzing a compound of the formula:

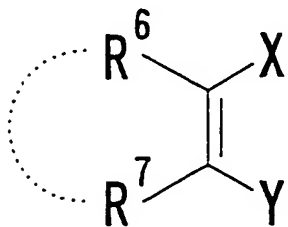


wherein each variable is as defined in claim 1, or a salt thereof.

7. (Withdrawn) The preparation process according to claim 6, characterized in that the compound of the formula:

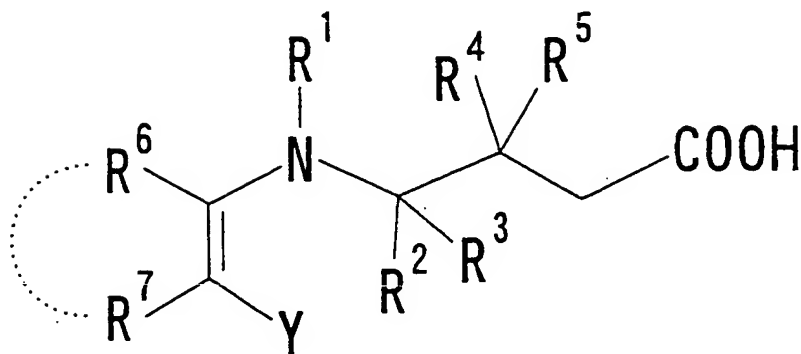


wherein each variable is as defined in claim 1, or a salt thereof, is subjected, without being isolated, to the reaction with the compound of the formula:



wherein each variable is as defined in claim 1, or a salt thereof.

8. (Currently Amended) A compound of the formula:



wherein Y is ~~an optionally substituted acyl group~~ -(CO)R<sup>20</sup>,

wherein R<sup>20</sup> is a hydrogen, or C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl or phenyl-C<sub>1-4</sub> alkyl, which may be substituted with 1 to 3 substituents selected from the group consisting of

(1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub> alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6-membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxy, (13) carbamoyl, (14) mono-C<sub>1-4</sub> alkyl-carbamoyl, (15) di-C<sub>1-4</sub> alkylcarbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl;

R<sup>1</sup> is

an optionally substituted hydrocarbon group selected from the group consisting of C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl and phenyl-C<sub>1-4</sub> alkyl group,

an optionally substituted acyl group, or

an optionally substituted sulfonyl group;

R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, and R<sup>7</sup> are independently

a hydrogen atom,

a halogen atom,

an optionally substituted amino group wherein said amino group is optionally

substituted with one or two substituents selected from the group consisting of  
C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub>  
aryl and phenyl-C<sub>1-4</sub> alkyl, which may be substituted with 1 to 3 substituents  
selected from the group consisting of (1) halogen, (2) nitro, (3) cyano, (4)  
hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub>  
alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6-membered cyclic amino, (11)  
carboxyl, (12) C<sub>1-4</sub> alkoxy carbonyl, (13) carbamoyl, (14) mono-C<sub>1-4</sub>  
alkylcarbamoyl, (15) di-C<sub>1-4</sub> alkyl carbamoyl, (16) C<sub>1-4</sub> alkyl optionally  
substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally  
substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl,  
(20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl; or 5- to 7- membered cyclic  
amino,

an optionally substituted hydroxyl group,

an optionally substituted thiol group,

an optionally substituted hydrocarbon group selected from the group consisting of C<sub>1-10</sub>

alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl  
or phenyl-C<sub>1-4</sub> alkyl group, or

an optionally substituted 5- to 7-membered aromatic heterocyclic group or a saturated

or unsaturated non-aromatic heterocyclic ring, containing at least one to three  
kinds of heteroatoms selected from the group consisting of an oxygen atom, a  
sulfur atom and a nitrogen atom;

or R<sup>1</sup> and R<sup>2</sup>, R<sup>1</sup> and R<sup>4</sup>, R<sup>2</sup> and R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>, R<sup>2</sup> and R<sup>4</sup>, or R<sup>6</sup> and R<sup>7</sup> may form a ring,

wherein said optionally substituted hydrocarbon group and said optionally

substituted heterocyclic group may each independently be substituted with 1 to 3 substituents selected from the group consisting of (1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub> alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6-membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxycarbonyl, (13) carbamoyl, (14) mono-C<sub>1-4</sub> alkylcarbamoyl, (15) di-C<sub>1-4</sub> alkylcarbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl groups;

and wherein said optionally substituted acyl group, said optionally substituted

sulfonyl group, said optionally substituted thiol group and said optionally substituted hydroxyl group may each independently be substituted with a C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl or phenyl-C<sub>1-4</sub> alkyl, which may be substituted with 1 to 3 substituents selected from the group consisting of (1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub> alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6- membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxycarbonyl, (13) carbamoyl, (14) mono- C<sub>1-4</sub> alkylcarbamoyl, (15) di-C<sub>1-4</sub> alkylcarbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl,



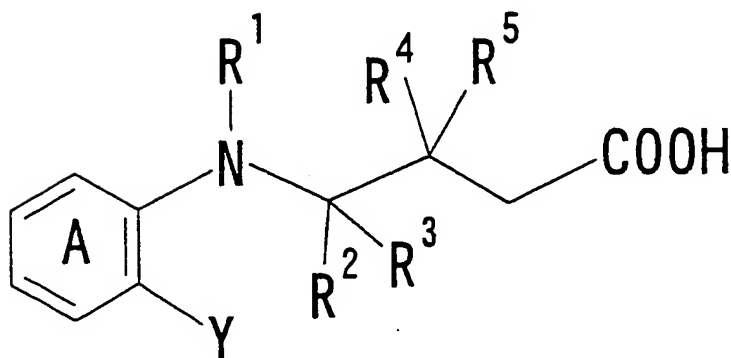
or a salt thereof.

Claim 9 (Cancelled)

10. (Original) The compound according to claim 8, wherein  $R^2$ ,  $R^3$ ,  $R^4$ , and  $R^5$  are hydrogen atoms.

11. (Original) The compound according to claim 8, wherein  $R^1$  is an optionally substituted hydrocarbon group.

12. (Currently Amended) A compound of the formula:



wherein Y is ~~an optionally substituted acyl group~~  $-(CO)R^{20}$ ,

wherein  $R^{20}$  is a hydrogen, or  $C_{1-10}$  alkyl,  $C_{3-7}$  cycloalkyl,  $C_{2-10}$  alkenyl,  $C_{3-7}$  cycloalkenyl,  $C_{2-10}$  alkynyl,  $C_{6-14}$  aryl or phenyl- $C_{1-4}$  alkyl, which may be substituted with 1 to 3 substituents selected from the group consisting of

(1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6)  $C_{1-4}$

alkylthio, (7) amino, (8) mono- $C_{1-4}$  alkylamino, (9) di- $C_{1-4}$  alkylamino, (10) 5-

to 6-membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxycarbonyl, (13) carbamoyl, (14) mono-C<sub>1-4</sub> alkyl-carbamoyl, (15) di-C<sub>1-4</sub> alkylcarbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl;

ring A is an optionally substituted benzene ring;

R<sup>1</sup> is an optionally substituted hydrocarbon group selected from the group consisting of C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl and phenyl-C<sub>1-4</sub> alkyl group,

an optionally substituted acyl group,

or an optionally substituted sulfonyl group;

R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup> are independently

a hydrogen atom,

a halogen atom,

an optionally substituted amino group wherein said amino group is optionally

substituted with one or two substituents selected from the group consisting of C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl and phenyl-C<sub>1-4</sub> alkyl, which may be substituted with 1 to 3 substituents selected from the group consisting of (1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub> alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6-membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxycarbonyl, (13) carbamoyl, (14) mono-C<sub>1-4</sub> alkylcarbamoyl, (15) di-C<sub>1-4</sub> alkyl carbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally

substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl; or 5- to 7- membered cyclic amino,

an optionally substituted hydroxyl group,

an optionally substituted thiol group,

an optionally substituted hydrocarbon group selected from the group consisting of C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl or phenyl-C<sub>1-4</sub> alkyl group,

or an optionally substituted 5- to 7-membered aromatic heterocyclic group or a saturated or unsaturated non-aromatic heterocyclic ring, containing at least one to three kinds of heteroatoms selected from the group consisting of an oxygen atom, a sulfur atom and a nitrogen atom;

or R<sup>1</sup> and R<sup>2</sup>, R<sup>1</sup> and R<sup>4</sup>, R<sup>2</sup> and R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup>, or R<sup>2</sup> and R<sup>4</sup> may form a ring,

wherein said optionally substituted hydrocarbon group and said optionally substituted heterocyclic group may each independently be substituted with 1 to 3 substituents selected from the group consisting of (1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub> alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6-membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxy, (13) carbamoyl, (14) mono-C<sub>1-4</sub> alkyl-carbamoyl, (15) di-C<sub>1-4</sub> alkylcarbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl groups;

and wherein said optionally substituted acyl group, said optionally substituted sulfonyl group, said optionally substituted thiol group and said optionally substituted hydroxyl group may each independently be substituted with a C<sub>1-10</sub> alkyl, C<sub>3-7</sub> cycloalkyl, C<sub>2-10</sub> alkenyl, C<sub>3-7</sub> cycloalkenyl, C<sub>2-10</sub> alkynyl, C<sub>6-14</sub> aryl or phenyl-C<sub>1-4</sub> alkyl, which may be substituted with 1 to 3 substituents selected from the group consisting of (1) halogen, (2) nitro, (3) cyano, (4) hydroxyl group, (5) thiol, (6) C<sub>1-4</sub> alkylthio, (7) amino, (8) mono-C<sub>1-4</sub> alkylamino, (9) di-C<sub>1-4</sub> alkylamino, (10) 5- to 6-membered cyclic amino, (11) carboxyl, (12) C<sub>1-4</sub> alkoxy-carbonyl, (13) carbamoyl, (14) mono-C<sub>1-4</sub> alkylcarbamoyl, (15) di-C<sub>1-4</sub> alkylcarbamoyl, (16) C<sub>1-4</sub> alkyl optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (17) C<sub>1-4</sub> alkoxy optionally substituted with a halogen atom or C<sub>1-4</sub> alkoxy, (18) formyl, (19) C<sub>2-4</sub> alkanoyl, (20) C<sub>1-4</sub> alkylsulfonyl and (21) C<sub>1-4</sub> alkylsulfinyl,

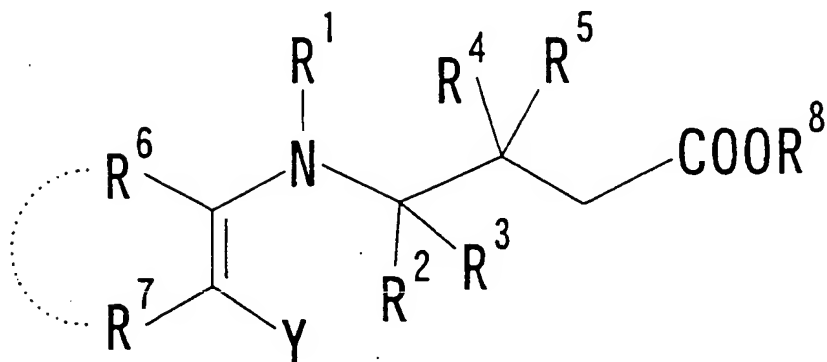
or a salt thereof.

Claim 13 (Cancelled)

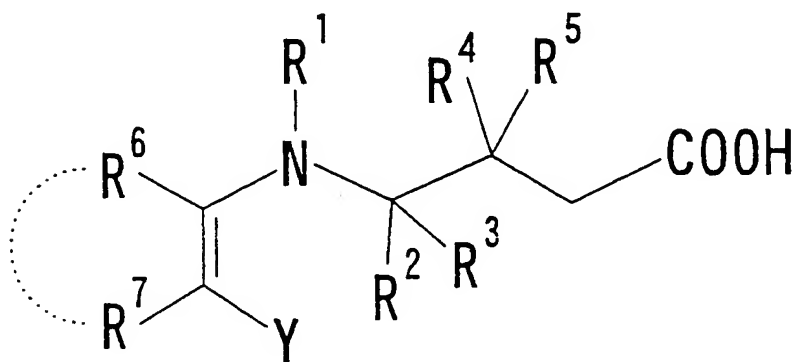
14. (Original) The compound according to claim 12, wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup> are hydrogen atoms.

15. (Original) The compound according to claim 12, wherein R<sup>1</sup> is an optionally substituted hydrocarbon group.

16. (Withdrawn) A process for the preparation of a compound of the formula:



wherein R<sup>8</sup> is an optionally substituted hydrocarbon group and the other variables are as defined below, or a salt thereof, characterized in that a compound of the formula:



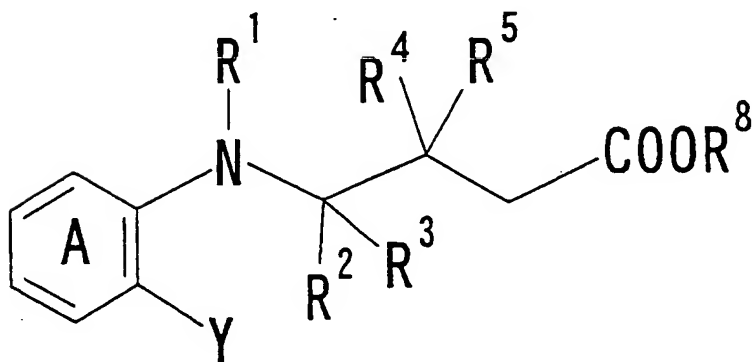
wherein each variable is as defined in claim 1, or a salt thereof, which is obtained by the preparation process according to claim 1, is subjected to esterification.

17. (Withdrawn) The preparation process according to claim 16, wherein Y is an optionally substituted acyl group.

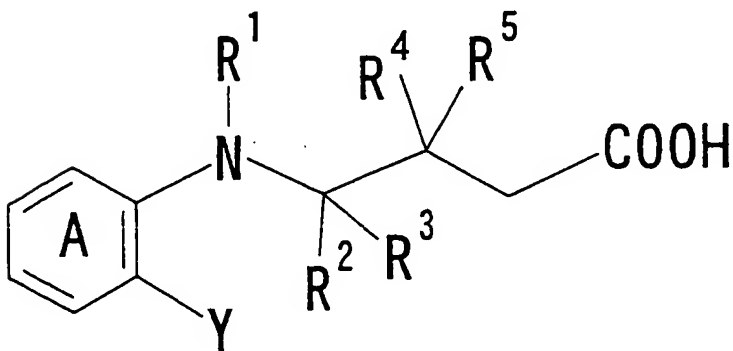
18. (Withdrawn) The preparation process according to claim 16, wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup> are hydrogen atoms.

19. (Withdrawn) The preparation process according to claim 16, wherein  $R^1$  is an optionally substituted hydrocarbon group.

20. (Withdrawn) A process for the preparation of a compound of the formula:

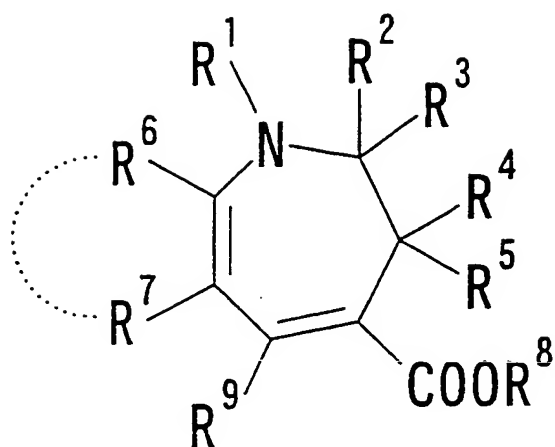


wherein  $R^8$  is an optionally substituted hydrocarbon group and the other variables are as defined below, or a salt thereof, characterized in that a compound of the formula:

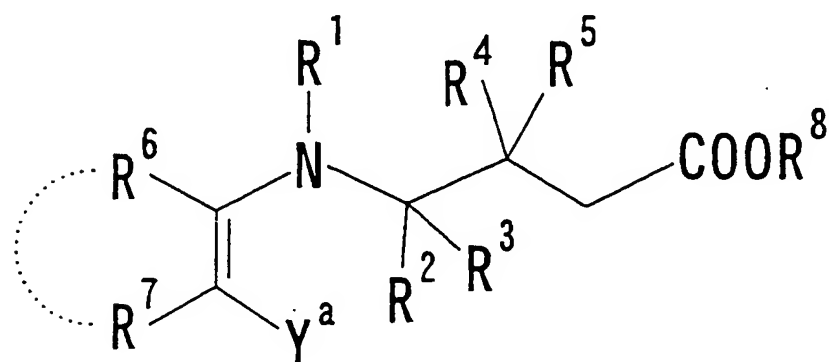


wherein each variable is as defined in claim 5, or a salt thereof, which is obtained by the preparation process according to claim 5, is subjected to esterification.

21. (Withdrawn) A process for the preparation of a compound of the formula:



wherein R<sup>9</sup> is a hydrogen atom or an optionally substituted hydrocarbon group, and the other variables are as defined below, or a salt thereof, characterized in that a compound of the formula:



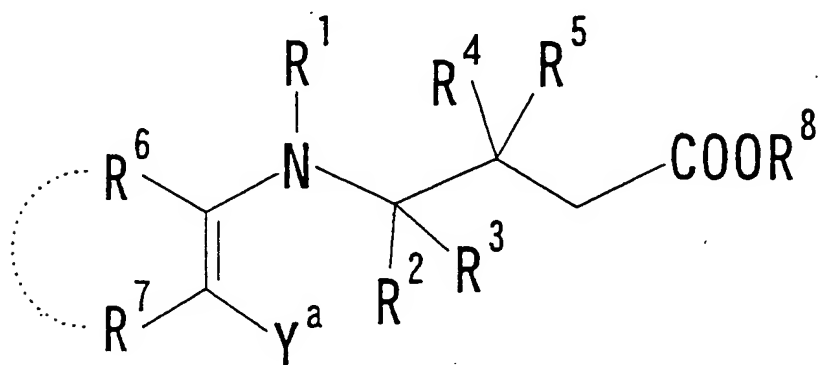
wherein Y<sup>a</sup> is a group of formula -COR<sup>9</sup> wherein R<sup>9</sup> is a hydrogen atom or an optionally substituted hydrocarbon group, and the other variables are as defined in claim 16, or a salt thereof, which is obtained by the preparation process according to claim 16, is subjected to ring-closing reaction.

22. (Withdrawn) The preparation process according to claim 21, wherein R<sup>9</sup> is a hydrogen atom.

23. (Withdrawn) The preparation process according to claim 21, wherein R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, and R<sup>5</sup> are hydrogen atoms.

24. (Withdrawn) The process according to claim 21, wherein  $R^1$  is an optionally substituted hydrocarbon group.

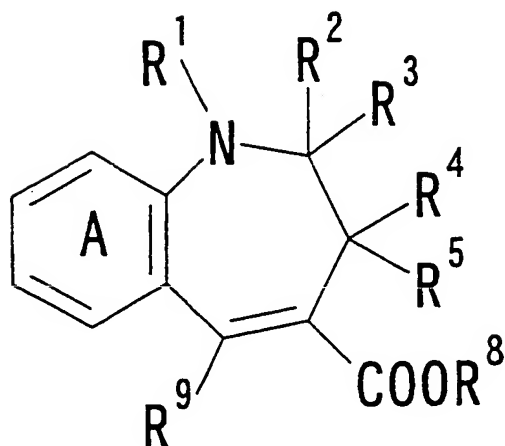
25. (Withdrawn) The preparation process according to claim 21, characterized in that a compound of the formula:



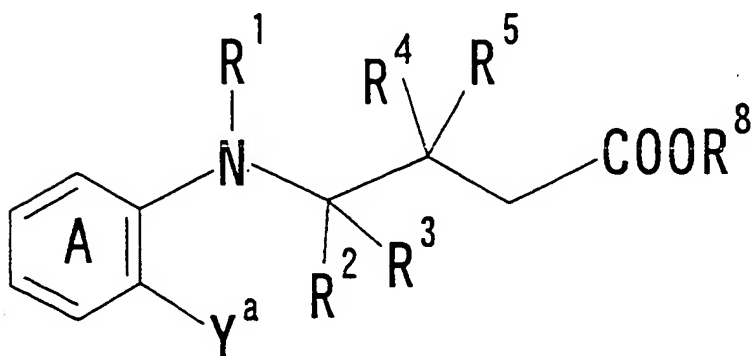
wherein  $Y^a$  is a group of formula  $-COR^9$  wherein  $R^9$  is a hydrogen atom or an optionally substituted hydrocarbon group, and the other variables are as defined in claim 16, or a salt thereof, which is obtained by the preparation process according to claim 16, is subjected, without being isolated, to ring-closing reaction.



26. (Withdrawn) A process for the preparation of a compound of the formula:



wherein R<sup>9</sup> is a hydrogen atom or an optionally substituted hydrocarbon group, and the other variables are as defined below, or a salt thereof, characterized in that a compound of the formula:



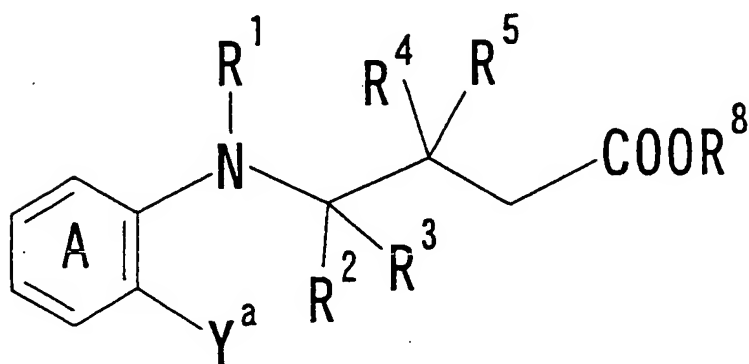
wherein Y<sup>a</sup> is a group of formula -COR<sup>9</sup> wherein R<sup>9</sup> is a hydrogen atom or an optionally substituted hydrocarbon group, and the other variables are as defined in claim 20, or a salt thereof, which is obtained by the preparation process according to claim 20, is subjected to ring-closing reaction.

27. (Withdrawn) The preparation process according to claim 26, wherein R<sup>9</sup> is a hydrogen atom.

28. (Withdrawn) The preparation process according to claim 26, wherein  $R^2$ ,  $R^3$ ,  $R^4$ , and  $R^5$  are hydrogen atoms.

29. (Withdrawn) The preparation process according to claim 26, wherein  $R^1$  is an optionally substituted hydrocarbon group.

30. (Withdrawn) The preparation process according to claim 26, characterized in that a compound of the formula:



wherein  $Y^a$  is a group of formula  $-COR^9$  wherein  $R^9$  is a hydrogen atom or an optionally substituted hydrocarbon group, and the other variables are as defined in claim 20, or a salt thereof, which is obtained by the preparation process according to claim 20, is subjected, without being isolated, to ring-closing reaction.